



U.S. PRO  
721904  
11/27/00

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> :  C07K 14/00		(11) International Publication Number: <b>WO 99/01468</b>
A2		(43) International Publication Date: 2 December 1999 (02.12.99)
<p>(21) International Application Number: PCT/CA99/00482</p> <p>(22) International Filing Date: 27 May 1999 (27.05.99)</p> <p>(30) Priority Data: 60/086,884 27 May 1998 (27.05.98) US</p> <p>(71) Applicant (for all designated States except US): GEMMA BIOTECHNOLOGY LTD. [CA/CA]; 7-504-610 University Avenue, Toronto, Ontario M5G 2M9 (CA).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): JULIUS, Michael, H. [CA/CA]; 38 Earl Street, Townhouse #9, Toronto, Ontario M4Y 1M3 (CA). FILIPP, Dominik [SK/CA]; 15 Pottery Place, Unit 1, Woodbridge, Ontario L4L 9J6 (CA).</p> <p>(74) Agents: HUNT, John, C. et al.; Blake, Cassels &amp; Graydon, Commerce Court West, P.O. Box 25, Toronto, Ontario M5L 1A9 (CA).</p>		
<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>Without international search report and to be republished upon receipt of that report.</i></p>		

(54) Title: THE INDUCTION OF ANTOBIOTIC PROTEINS AND PEPTIDES BY LAIT/sCD14-PROTEIN

(57) Abstract

A method of ameliorating the symptoms of sepsis comprising directly exposing epithelial cells of a mammal in need thereof to soluble CD14, or active variants thereof. A method of obtaining CD14 from a stock solution containing protein of a mammary secretion is described. A method of directly activating B cells using a soluble polypeptide having the amino acid sequence selected from the group consisting of leu-leu-leu-leu-leu-pro-ser, leu-leu-leu-leu-leu-pro-leu; and leu-leu-leu-leu-leu-val-his, and which is specifically recognized by the monoclonal antibody 3C10 and which activates B cells is described. Bovine CD14 genomic DNA is described.